

CHAPTER

4

Laser Annealing of Metal Nanoparticles Synthesized in Glasses by Ion Implantation

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4.1 INTRODUCTION

Composite materials, such as dielectrics with embedded metal nanoparticles (MNPs), are promising optoelectronic materials [1–6]. An example of their application in optoelectronics is a prototype of integrated electronic circuit—chip that combines metallic wires as conductors of electric signals with fibers as guides for optical signals. In practice, light guides are